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### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (Original) A soil binding and revegetation composition comprising the mixture products of:

water;

a carbohydrate;

a protein;

an iron compound;

a strong base; and

a fibrous material.

- 2. (Original) A soil binding and revegetation composition as defined in claim 1, said water having a concentration in a range of about 60% to about 99.9% by weight of the composition.
- 3. (Original) A soil binding and revegetation composition as defined in claim 1, wherein said carbohydrate and said protein comprise at least one type of endosperm.
- 4. (Original) A soil binding and revegetation composition as defined in claim 3, wherein said endosperm is derived or extracted from at least one type of cereal grain or legume.
- 5. (Currently Amended) A soil binding and revegetation composition as defined in claim 4, wherein said endosperm is derived or extracted from at least one member selected from the group comprising wheat, rice, potatos, corn, barley, sorghum, soy beans, and pinto beans.
- 6. (Original) A soil binding and revegetation composition as defined in claim 3, wherein said carbohydrate and protein of said endosperm are derived from a single source.

- 7. (Original) A soil binding and revegetation composition as defined in claim 3, wherein said carbohydrate and protein of said endosperm are derived from different sources.
- 8. (Original) A soil binding and revegetation composition as defined in claim 1, said endosperm having a concentration in a range of about 25% to about 95% by weight of solid components exclusive of said water.
- 9. (Original) A soil binding and revegetation composition as defined in claim 1, said endosperm having a concentration in a range of about 50% to about 85% by weight of solid components exclusive of said water.
- 10. (Original) A soil binding and revegetation composition as defined in claim 1, said endosperm having a concentration in a range of about 60% to about 75% by weight of solid components exclusive of said water.
- 11. (Original) A soil binding and revegetation composition as defined in claim 1, said iron compound comprising at least one type of iron oxide.
- 12. (Original) A soil binding and revegetation composition as defined in claim 1, said iron compound comprising at least one of ferric oxide, ferrous oxide, iron halide or iron hydroxide.
- 13. (Original) A soil binding and revegetation composition as defined in claim 1, said iron compound having a concentration in a range of about 0.01% to about 5% by weight of solid components exclusive of said water.
- 14. (Original) A soil binding and revegetation composition as defined in claim 1, said iron compound having a concentration in a range of about 0.1% to about 1% by weight of solid components exclusive of said water.

- 15. (Original) A soil binding and revegetation composition as defined in claim 1, said strong base comprising at least one member selected from the group comprising alkali metal oxides, alkali metal oxides, alkali metal oxides, alkali metal hydroxides, and alkali metal carbonates.
- 16. (Original) A soil binding and revegetation composition as defined in claim 1, said strong base having a concentration in a range of about 15% to about 50% by weight of solid components exclusive of said water.
- 17. (Original) A soil binding and revegetation composition as defined in claim 1, said strong base having a concentration in a range of about 25% to about 40% by weight of solid components exclusive of said water.
- 18. (Original) A soil binding and revegetation composition as defined in claim 1, said fibrous material comprising at least one type of fibers derived from plants.
- 19. (Original) A soil binding and revegetation composition as defined in claim 1, said fibrous material comprising mulch formed from recycled paper.
- 20. (Original) A soil binding and revegetation composition as defined in claim 1, said fibrous material comprising thermally treated wood fibers.
- 21. (Original) A soil binding and revegetation composition as defined in claim 1, further comprising a pH adjustor in an amount so that the composition has a pH in a range of about 10 to about 13.
- 22. (Currently Amended) A soil binding and revegetation composition as defined in claim 21, wherein said pH adjustor <u>is</u> included in an amount so that the composition has a pH in a range of about 10.5 to about 12.8.

- 23. (Original) A soil binding and revegetation composition as defined in claim 21, wherein said pH adjustor is included in an amount so that the composition has a pH in a range of about 11 to about 12.6.
- 24. (Original) A soil binding and revegetation composition as defined in claim 21, said pH adjustor comprising at least one organic or inorganic acid.
- 25. (Original) A soil binding and revegetation composition as defined in claim 1, further comprising at least one type of plant seeds.
- 26. (Original) A precursor composition for use in manufacturing a soil binding and revegetation composition, comprising:

a carbohydrate;

a protein;

an iron compound;

a strong base; and

a fibrous material.

- 27. (Original) A precursor composition as defined in claim 26, the precursor composition comprising at least two parts that are initially stored separately so that said two parts are individually mixable with water when manufacturing the soil revegetation composition.
- 28. (Original) A precursor composition as defined in claim 26, wherein said carbohydrate and said protein comprise at least one type of endosperm.
- 29. (Original) A precursor composition as defined in claim 28, a mixture of at least a portion of said endosperm, iron compound and strong base comprising a first part of the precursor composition and the fibrous material comprising a second part of the precursor composition.

30. (Original) A method of manufacturing a soil binding and revegetation composition, comprising:

mixing together water, an endosperm comprising carbohydrate and protein, an iron compound, and a strong base to form an intermediate composition; and adding a fibrous material to form the soil binding and revegetation composition.

- 31. (Original) A method as defined in claim 30, further comprising adding a pH adjustor to the intermediate composition or soil binding and revegetation composition in order to adjust the pH of the intermediate or soil binding and revegetation composition to within a range of about 10 to about 13.
- 32. (Original) A method of treating soil so as to facilitate revegetation thereof, comprising:

applying the soil binding and revegetation composition of claim 1 to soil; and allowing the soil binding and revegetation composition to bind particles found within the soil.

- 33. (Currently Amended) A method of treating soil as defined in claim 32, the soil binding and revegetation composition being applied by at least one of aerial spraying or broadcasting.
- 34. (Currently Amended) A method of treating soil as defined in claim 32, the soil binding and revegetation composition being applied by at least one of mechanical ground-based spraying or broadcasting.
- 35. (Currently Amended) A method of treating soil as defined in claim 32, the soil binding and revegetation composition being applied by at least one of manual spraying or broadcasting.

- 36. (Original) A method of treating soil as defined in claim 32, the soil binding and revegetation composition being applied to soil at a construction site in order to prevent erosion and promote revegetation of the soil.
- 37. (Original) A method of treating soil as defined in claim 32, the soil binding and revegetation composition being applied to soil at a burn site in order to prevent erosion and promote revegetation of the soil.

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